## Amendment to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. (currently amended) A method comprising providing a capability to perform operations on a computer system, the operations comprising:

searching an entry associated with a network component in an aggregated data set to identify one or more pointers to a deployment policy tree and a pointer to a configuration tree;

based on the identified one or more pointers to the deployment policy tree, searching the deployment policy tree to identify one or more policies directly associated with the network component and to identify one or more policies directly associated with the group;

based on the identified pointer to the network configuration tree, searching the configuration tree to identify a parent node corresponding to a group to which the network component belongs to generate

identifying one or more policies-associated with a network component;

<del>generating</del> a	list	of one	or	more	groups	to	which	the	
network component	belon	js <del>, an</del>	<del>d</del>						
identifying -	<del>one or</del>	- <del>more</del>	pol:	icies	asseci	ate	<del>l with</del>	each	<del>-o£</del>

the groups in the generated list.

- 2. (original) The method of claim 1 in which the network component comprises one or more of the following: a network device, a device group, a device subgroup, a user, a group of users, an application, a group of applications, an end-host, a group of end-hosts, and one or more time conditions.
- 3. (original) The method of claim 2 in which at least one of the identified policies associated with the network component is currently deployed.
- 4. (original) The method of claim 2 in which at least one of the identified policies associated with the network component is currently undeployed.

## 5-6. (canceled)

- 7. (currently amended) The method of claim 1 6 further comprising recursively searching the aggregated data set and the configuration tree until a non-group node is encountered in the configuration tree.
- 8. (original) The method of claim 7 in which the recursive searching generates a group chain list.
  - 9. (canceled).

- 10. (currently amended) The method of claim 1 in which one or more of the operations is performed at least in part using the an aggregated data set.
  - 11-12. (canceled).
- 13. (currently amended) The method of claim 1 10 in which the aggregated data set comprises a plurality of entries, each entry corresponding to a network component and including a network component identifier, one or more pointers to a deployment policy tree, and a pointer to a network configuration tree.
- 14. (original) The method of claim 1 in which providing a capability to perform operations on a computer system comprises providing at a network management policy decision point a policy based network management software application capable of performing the operations.
  - 15. (currently amended) An article comprising:
- a storage medium having a plurality of machine readable instructions, wherein execution of the instructions causes a machine to perform operations comprising:

search an entry associated with a network component in an aggregated data set to identify one or more pointers to a deployment policy tree and a pointer to a configuration tree;

based on the identified one or more pointers to the deployment policy tree, search the deployment policy tree to identify one or more policies directly associated with the network component and to identify one or more policies directly associated with the group; and

based on the identified pointer to the network configuration tree, search the configuration tree to identify a parent node corresponding to a group to which the network component belongs to identify one or more policies associated with a network component; generate a list of one or more groups to which the network component belongs; and

> identify one or more policies associated with each of the groups in the generated list.

16. (original) The article of claim 15 in which the network component comprises one or more of the following: a network device, a device group, a device subgroup, a user, a group of users, an application, a group of applications, an end-host, a group of end-hosts, and one or more time conditions.

17-18. (canceled).

- 19. (currently amended) The article of claim 15 18 further comprising instructions to recursively search the aggregated data set and the configuration tree until a non-group node is encountered in the configuration tree.
- 20. (original) The article of claim 19 in which the recursive searching generates a group chain list.
  - 21. (canceled).
- 22. (currently amended) The article of claim 15 in which one or more of the operations is performed at least in part using the an aggregated data set.
- 23. (currently amended) The article of claim 15 22 in which the aggregated data set comprises a hash table or a red-black tree.
- 24. (currently amended) The article of claim 15 22 in which the aggregated data set comprises a plurality of entries, each entry corresponding to a network component and including a network component identifier, one or more pointers to a deployment policy tree, and a pointer to a network configuration tree.

- 25. (original) A policy based network management (PBNM) system comprising:
- a network configuration tree configured to store a tree representation of a network configuration, the tree representation being formed of a plurality of nodes, each node corresponding to a network component;
- a deployed policy tree configured to store a tree representation of policies associated with network components;

an aggregated data set configured to store a plurality of data elements including one or more identity elements, one or more pointers to the deployed policy tree, and one or more pointers to the network configuration tree, each identity element identifying a network component and having an associated network configuration tree pointer and one or more associated deployed policy tree pointers; and

one or more software components configured to identify one or more policies associated with a network component; generate a list of one or more groups to which the network component belongs; and identify one or more policies associated with each of the groups in the generated list.

26. (original) The system of claim 25 in which the network component comprises one or more of the following: a network device, a device group, a device subgroup, a user, a group of

users, an application, a group of applications, an end-host, a group of end-hosts, and one or more time conditions.

27. (original) The system of claim 25 in which the one or more software components configured to identify one or more policies associated with the network component are configured to perform the following:

search an entry associated with the network component in the aggregated data set to identify the network component's one or more associated deployed policy tree pointers; and

based on the identified one or more deployed policy tree pointers, search the deployment policy tree to identify one or more policies directly associated with the network component.

28. (original) The system of claim 25 in which the one or more software components configured to generate the list of one or more groups to which the network component belongs are configured to perform the following:

search an entry associated with the network component in the aggregated data set to identify the network component's associated network configuration tree pointer; and

based on the identified network configuration tree pointer, search the network configuration tree to identify a parent node corresponding to a group to which the network component belongs.

- 29. (original) The system of claim 28 in which the one or more software components recursively search the aggregated data set and the network configuration tree until a non-group node is encountered in the configuration tree.
- 30. (original) The system of claim 25 in which the one or more software components configured to identify one or more policies associated with each of the groups in the generated list are configured to perform the following for each group in the list:

search an entry associated with the group in the aggregated data set to identify the group's one or more associated deployed policy tree pointers; and

based on the identified one or more deployed policy tree pointers, search the deployed policy tree to identify one or more policies directly associated with the group.

31-32. (canceled).

33. (currently amended) A method comprising providing a capability to perform operations on a computer system, the operations comprising:

receiving a request to identify one or more policies associated with a specified subject;

identifying one or more policies directly associated with

the specified subject by:

searching an entry associated with the specified subject in an aggregated data set to identify one or more first pointers to a deployment policy tree; and

based on the identified one or more first deployment policy tree pointers, searching the deployment policy tree to identify one or more policies directly associated with the specified subject;

generating a list of one or more groups to which the specified subject belongs by:

searching an entry associated with the specified subject in the aggregated data set to identify a pointer to a configuration tree; and

based on the identified configuration tree pointer, searching the configuration tree to identify a parent node corresponding to a group to which the specified subject belongs; and

identifying one or more policies associated with each of the groups in the generated list by:

searching an entry associated with the group in the aggregated data set to identify one or more second pointers to a deployment policy tree; and

based on the identified one or more second deployment policy tree pointers, searching the deployment policy tree to

identify one or more policies directly associated with the group.

34. (original) The method of claim 33 in which the specified subject comprises one or more of the following: a network device, a device group, a device subgroup, a user, a group of users, an application, a group of applications, an endhost, a group of end-hosts, and one or more time conditions.

35-36. (canceled).

37. (currently amended) The method of claim 33 36 further comprising recursively searching the aggregated data set and the configuration tree until a non-group node is encountered in the configuration tree.

## 38. (canceled).

39. (original) The method of claim 33 in which providing a capability to perform operations on a computer system comprises providing at a network management policy decision point a policy based network management software application capable of performing the operations.